

**METHODS AND DEVICES FOR DISPERSION-CONTROLLED TRANSPORT
OR PROCESSING OF POLAR OR POLARIZABLE MATERIALS**

ABSTRACT OF THE DISCLOSURE

5 [0120] Methods for controlling dispersion of material during flow in a microfluidic device that include capturing polar or polarizable materials in localized electric fields. Localized electric fields are generated in various capture electrode configurations. Methods for amplifying nucleic acids, sequencing nucleic acids, and other processes are provided. Devices and integrated systems for performing the

10 methods of the invention are also provided.

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